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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicat	tion No.	Applicant(s)		
Office Action Summary		09/817,	102	DUTTA ET AL.		
		Examine	er	Art Unit		
		SYED ZI	Α	2131		
Period fo	The MAILING DATE of this commu r Reply	nication appears on th	he cover sheet with the	correspondence ad	ddress	
A SHO WHIC - Exter after - If NO - Failui Any r	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE IN sions of time may be available under the provision. SIX (6) MONTHS from the mailing date of this com period for reply is specified above, the maximum s e to reply within the set or extended period for reply ply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF T s of 37 CFR 1.136(a). In no e munication. tatutory period will apply and y will, by statute, cause the ap	THIS COMMUNICATIOn beyont, however, may a reply be to will expire SIX (6) MONTHS from the polication to become ABANDON 1998.	N. mely filed n the mailing date of this of ED (35 U.S.C. § 133).	·	
Status						
2a)⊠	Responsive to communication(s) file. This action is FINAL . Since this application is in condition closed in accordance with the pract	2b) ☐ This action is for allowance excep	ot for formal matters, pr		e merits is	
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□	Claim(s) 1-38 is/are pending in the 4a) Of the above claim(s) is/a Claim(s) is/a claim(s) is/are allowed. Claim(s) 1-38 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restri on Papers The specification is objected to by the classification is objected to by the classification is objected.	are withdrawn from one cition and/or election and the examiner.	requirement.	- Francisco		
_	The drawing(s) filed on is/are Applicant may not request that any obje Replacement drawing sheet(s) including The oath or declaration is objected t	ection to the drawing(s) g the correction is requ	be held in abeyance. Se ired if the drawing(s) is of	ee 37 CFR 1.85(a). ojected to. See 37 C		
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (nation Disclosure Statement(s) (PTO/SB/08) ' No(s)/Mail Date	PTO-948)	4) Interview Summar Paper No(s)/Mail [5] Notice of Informal 6) Other:	Oate		

DETAILED ACTION

. This office action is in response to amendment and remarks filed on July 07, 2007. Original application contained Claims 1-38. Applicant currently amended Claim 1, 9, 12, 15, 16, 24, 27, 30, and 31. The amendment filed on July 07, 2007 have been entered and made of record. Therefore, Claims 1-38 are pending for consideration.

Response to Arguments

1. Applicant's arguments filed on July 07, 2007.have been fully considered but they are not persuasive because of the following reasons:

Regarding Claims 1, 9, 12, 15, 16, 24, 27, 30, and 31 applicants argued that in cited prior art [Gladney et al. (U. S. Patent 6,044,373)] "the enforcement mechanism, including the enforcing construct, is localized in the system that requires an authorization mechanism.", and fails to provide "a teaching of an object-oriented enforcement construct associated with the invocation of a method, as recited in the aforementioned independent claims".

This is not found persuasive. Cited prior art clearly teaches method and computer program product for object oriented access control that determines access condition of protected element using protecting resource manager, based on request from data manager where the protected and protecting codes are operated in distributed computers.

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A client program request to resource program code to access protected element. Data manager identifies protecting resource manager and sends request to program code. Based on request from data manager, a manager determines access condition to the element based on access control element (col.5 line 14 to line 38).

As a result, the system of cited prior art provides a system and method for operating a data processing system that uses structures incorporated into object-oriented programming languages in order to control access to protected methods, where the enforcement construct may be applied at the class level such that each method defined within a class becomes a protected method, as claimed in claims 1, 9, 12, 15, 16, 24, 27, 30, and 31.

Applicants <u>clearly have failed</u> to explicitly identify specific claim limitations, which would define a patentable distinction over prior art. Therefore, the examiner asserts that cited prior art does teach or suggest the subject matter broadly recited in independent and dependent claims. Accordingly, rejections for Claims 1-38 are respectfully maintained.

2. Applicant amended the claims 9, and 12, therefore, previous rejection under 35 U.S.C. 101 has been withdrawn.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claim 1-38 is rejected under 35 U.S.C. 102(e) as being anticipated by Gladney et al. (U. S. Patent 6,044,373).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

2. Regarding Claim 1 Gladney teaches a process for restricting access an object-oriented method within a data processing system, the process (Fig.1-3, 9) comprising: initiating a call to the object-oriented method from a requester (col.9 line 61 to col.10 line 5);

determining whether an invocation of the object-oriented method has been restricted with an object-oriented enforcement construct (col.10 line 6 to col.10 line 20);

medium (col.5 line 14 to line 38).

in response to a determination that access the object-oriented method has been restricted with an object-oriented enforcement construct, performing an authorization process to determine whether the requester is authorized to invoke the object-oriented method (col.10 line 21 to line 42); and

in response a determination that the requester is authorized to invoke the objectoriented method, invoking the object-oriented method (col.11 line 35 to col.11 line 65)
wherein an instruction to enforce said object-oriented enforcement construct is
embedded in compiled source code and said source code is stored in a computer-readable

3. Regarding Claim 9 Gladney teach a process for restricting access to an object-oriented method within a data processing system (Fig.1-3, 9), the process comprising: editing a source code statement that defines object-oriented method within a source code file (col.18 line 34 to line 44); and

modifying the source code file to include an enforcement construct, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process and a reserved word to be recognized by a compiler as requiring runtime execution of the authorization process, prior to invoking the object-oriented method, to determine whether an entity is authorized to invoke the object-oriented method (col.3 line 41 to line 60)

wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium (col.5 line 14 to line 38).

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4. Regarding Claim 12 Gladney teach a process for restricting access to an objectoriented method within data processing system, the process comprising:

compiling source code that defines the object-oriented method within a source code file (col.18 line 34 to line 44); and

compiling source code that defines an enforcement construct, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process and a reserved word to be recognized by compiler as requiring runtime execution of the authorization process, prior invoking the object-oriented method, to determine whether an entity is authorized to invoke the object-oriented method (col.3 line 41 to line 60)

wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium (col.5 line 14 to line 38).

5. Regarding Claim 15 Gladney teach a process of restricting invocation of an object-oriented method within a data processing system, the process comprising:

identifying the object-oriented method within a data structure (col.9 line 61 to col.10 line 5); and

associating an object-oriented enforcement construct with the object-oriented method, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process that is to be executed, prior to invoking the

object-oriented method, to determine whether an entity is authorized to invoke the objectoriented method (col.10 line 6 to line 42, and col.11 line 35 to col.11 line 65)

wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium (col.5 line 14 to line 38).

6. Regarding Claim 16 Gladney teach a computer program product in a computerreadable medium for use within a data processing system for restricting access to an object-oriented method, the computer program product (Fgi.1-3, and 9, col.18 line 34 to line 44) comprising:

instructions for initiating a call to the object-oriented method from a requester (col.9 line 61 to col.10 line 5);

instructions for determining whether an invocation of the object-oriented method has been restricted with an object-oriented enforcement construct (col.10 line 6 to col.10 line 20);

instructions for performing, in response to a determination that access to the object-oriented method has been restricted with an object-oriented enforcement construct, an authorization process to determine whether the requester is authorized to invoke the object-oriented method (col.10 line 21 to line 42); and

instructions for invoking, in response to a determination that the requester is authorized to invoke the object-oriented method, the object-oriented method (col.11 line 35 to col.11 line 65)

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wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium (col.5 line 14 to line 38).

7. Regarding Claim 24 Gladney teach a computer program product in a computer-readable medium for use within a data processing system to generate source code for restricting access to an object-oriented method, the computer program product (Fgi.1-3, and 9, col.18 line 34 to line 44) comprising:

instructions for editing a source code statement that defines the object-oriented method within a source code file (col.9 line 61 to col.10 line 5); and

instructions for modifying the source code file to include an enforcement construct, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process and a reserved word to be recognized by compiler as requiring runtime execution of the authorization process, prior to invoking the object-oriented method, to determine whether an entity is authorized invoke the object-oriented method (col.10 line 6 to line 42, and col.11 line 35 to col.11 line 65)

wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium (col.5 line 14 to line 38).

8. Regarding Claim 27 Gladney teach a computer program product a computerreadable medium for use within a data processing system to generate executable code for

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restricting access an object-oriented method, the computer program product (Fgi.1-3, and 9, col.18 line 34 to line 44) comprising:

instructions for compiling source code that defines the object-oriented method within a source code file (col.9 line 61 to col.10 line 5); and

instructions for compiling source code that defines an enforcement construct, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process and a reserved word to be recognized by a compiler as requiring runtime execution of the authorization process, prior to invoking the object-oriented method, to determine whether an entity is authorized to invoke the object-oriented method (col.10 line 6 to line 42, and col.11 line 35 to col.11 line 65)

wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium (col.5 line 14 to line 38).

9. Regarding Claim 30 Gladney teach a computer program product in a computer-readable medium for use within a data processing system for restricting invocation of an object-oriented method, the computer program product (Fgi.1-3, and 9, col.18 line 34 to line 44) comprising:

instructions for identifying the object-oriented method within a data structure (col.9 line 61 to col.10 line 5); and

instructions for associating an object-oriented enforcement construct with the object-oriented method, wherein the enforcement construct comprises an authorization process identifier associated with an authorization process that is to be executed, prior to

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invoking the object-oriented method, to determine whether an entity is authorized to invoke the object-oriented method (col.10 line 6 to line 42, and col.11 line 35 to col.11 line 65)

wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium (col.5 line 14 to line 38).

10. Regarding Claim 31 Gladney teach an apparatus for restricting access an object-oriented method within a data processing system, the apparatus (Fgi.1-3, and 9) comprising:

means for initiating a call to the object-oriented method from a requester (col.9 line 61 to col.10 line 5);

means for determining whether an invocation of the object-oriented method has been restricted with an object-oriented enforcement construct (col.10 line 6 to col.10 line 20);

means for performing, in response to a determination that access to the object-oriented method has been restricted with an object-oriented enforcement construct, an authorization process to determine whether the requester is authorized to invoke the object-oriented method (col.10 line 21 to line 42); and

means for invoking, in response to a determination that the requester is authorized to invoke the object-oriented method, the object-oriented method (col.11 line 35 to col.11 line 65)

wherein an instruction to enforce said object-oriented enforcement construct is embedded in compiled source code and said source code is stored in a computer-readable medium (col.5 line 14 to line 38).

5. Claims 2-8, 10-11, 13-14, 17-23, 25-26, 28-29, and 32-38 are rejected applied as above in rejecting Claims 1, 9, 12, 16, 24, 27, and 31. Furthermore, the system of Gladney teaches and describes an object-oriented access control method for protected elements (Fig.1-10), comprising:

As per Claim 2, 17, and 32 in response to a determination that the requester is not authorized to invoke the object-oriented method, returning an error response to the requester for the call to the object-oriented method (col.11 line 43 to line 47).

As per Claim 3, 18, and 33 identifying the authorization process that is associated with the object-oriented method (col.7 line 47 to line 56).

As per Claim 4, 19, and 34 obtaining identity information associated with the requester; and passing the identity information associated with the requester to the authorization process (col.13 line 57 to col.14 line 21).

As per Claim 5, 20, and 35 the authorization process is performed by invoking an authorization method (col.14 line 9 to line 21).

As per Claim 6, 21, and 36 analyzing runtime environment information in order to determine whether an invocation of the object-oriented method has been restricted with an object-oriented enforcement construct (col.3 line 41 to line 60).

As per Claim 7, 22, and 37 the invocation of the object-oriented method has been restricted with an object-oriented enforcement construct applied at a method level in a source code statement for the object-oriented method (col.8 line 19 to line 50).

As per Claim 8, 23, and 38 the invocation of the object-oriented method has been restricted with an object-oriented enforcement construct applied at a class level a source code statement for a class that includes the object-oriented method (col.9 line 11 to line 27).

As per Claim 10, 13, 25, and 28 the enforcement construct is included in a source code statement that defines the object-oriented method (Fig.3, abstract).

As per Claim 11, 14, 26, and 29 the enforcement construct is included in a source code statement that defines a class that includes the object-oriented method (Fig.3, abstract).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SYED ZIA whose telephone number is (571)272-3798. The examiner can normally be reached on 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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April 15, 2008 /Syed Zia/

Primary Examiner, Art Unit 2131

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